

CLAIMS

1. Formwork system for use in casting prefabricated panels, the formwork
5 system including:
 - a support structure including a platform defining a surface of the panel to be cast, and a sub-structure supporting the platform;
 - a plurality of side forms being positionable on the platform to define sides
10 of the panel to be cast;
 - each side form being braced by at least one brace structure connected to
the support structure for bracing the plurality of side forms in position, each
brace structure having adjustment means for permitting adjustment of the
position of each side form on the platform to adjust the length and width
dimensions of the panel to be cast.
- 15 2. Formwork system according to claim 1, wherein each brace structure
also includes an abutment connected to the sub-structure, a strut extending
from the side form, the adjustment means providing a connection between the
strut and the abutment that permits adjustment of the position of each side form
20 on the platform.
3. Formwork system according to claim 2, wherein the adjustment means
includes a threaded bore associated with the abutment and a threaded shaft
forming at least in part the strut which is received by the threaded bore so that
25 rotation of the shaft relative to the bore causes adjustment of the strut and the
side form relative to the abutment.
4. Formwork system according to claim 2, wherein the adjustment means
includes an edge associated with the abutment about which the strut pivots, a
30 height adjuster is located at a distal end of the strut for adjusting the position of
the distal end of the strut relative to the sub-structure, a proximal end of the
strut engages the side form so that elevating the position of the distal end of the
strut creates a clamping force at the proximal end of the strut clamping the side
form in position on the platform.

5. Formwork system according to claim 4, wherein the height adjuster includes a threaded bore associated with the distal end of the strut, and a threaded shaft received by the threaded bore, a distal end of the threaded shaft engages the sub-structure so that rotation of the threaded shaft relative to the threaded bore causes the elevation of the distal end of the strut to alter, to thereby alter the clamping force.
6. Formwork system according to any one of the preceding claims, wherein the formwork system includes a plurality of sets of side forms each set varying in height to permit casting of panels of varying thickness.
7. Formwork system according to any one of the preceding claims, wherein the sub-structure includes beams and/or channels which provide support to the platform.
8. Formwork system according to any one of the preceding claims, wherein the platform is designed to impart a pattern onto the surface of the panel.
9. Formwork system according to any one of the preceding claims, wherein each side form is designed with a profile to impart a shape into the side of the panel to be cast.
10. Formwork system according to any one of the preceding claims, wherein the mould can be extended using modular extension mould to prefabricate higher heights of wall panel.